

Amendments to the Drawings:

The attached sheet of drawings includes changes to Figure 2 and Figure 4.

These sheets replaces the original Figure 2 and Figure 4.

Approval by the Examiner is respectfully requested.

Attachment: Replacement Figure 2 and Figure 4

Annotated Sheet Showing Changes to Figure 2 and Figure 4

REMARKS

Claims 1-20 were pending in the application. Claims 1-20 stand rejected. Claims 1, 3-6, and 16-18 were cancelled. Claims 2, 7, 14-15, and 19-20 were amended. Claims 21-25 were added. Claims 2, 7-15, and 19-25 remain in the application.

The specification and drawings stand objected to. Figure 4 was objected to as lacking some arrowheads and was corrected as suggested. The specification was amended to refer to item 560 in Figure 3. Objections were also made in relation to reference numerals 205, 210, and 215, which all appear in the specification in paragraph 0032. In view of this, it is believed that the objections have been met by a correction of Figure 2 to add an unobscured reference numeral "205". The disclosure was objected to because of informalities in paragraphs [0006] and [0046]. Corrections were made.

Claims 7 and 14 stand objected to because of the following informalities: (1) claim 7, line 1, "that comprising a" should be - that comprises a -.or - comprising a --; (2) claim 14, line 1, "A printer configured" should be - A printing system configured - or in line 7, "a printer" should be "said printer". Claim 7, as amended, does not include the indicated language. Claim 14 was amended as suggested and Claims 15 and 19-20 were amended to track this change in Claim 14.

Claims 1-5, 7, and 11-20 stand rejected under 35 U.S.C. 102(a) as being anticipated by Hull (US Publication 2002/0101607). The rejection states:

'(1) regarding claim 1:

'Hull '607 discloses in a printer that produces images on sheets comprising a plurality of input sources coupled to an output destination (32, 33, 34, 39 in Fig. 2), one of the input sources comprising ordered media having a repetitive sequence (paragraph [0045], lines 1-3 and paragraph [0046], lines 1-3, where the user loads groups of ordered pages into the printer), a method of recovering from a jam without preprogramming the order of ordered media set (paragraph [0057], lines 4, where the CPU is capable of performing the jam recovery without the need of preprogramming the order of the media) comprising:

'generating a request that identifies the insertion order of selected ordered media (paragraph [0046], lines 3-11, where the user enter the selection of arrangement media, thus identifying the order of the media);

'inserting the selected ordered media within an output (paragraph 0056], lines 4-11); and

"purging selected ordered media when a jam occurs (paragraph [0057], lines 1-6, where it says "sheets need to be removed" is being interpreted as purging the ordered media when a jam occurs).'

Claim 1 was cancelled and replaced by Claim 21, which states:

21. A printing method for recovering a printer from a cleared media jam of a print job having multiple output sets, each said set having media sheets including a plurality of sheets of ordered media having a repetitive sequence, the method comprising:

(1) printing the print job, said printing including the steps of:

initializing a resumption pointer in a sheet list of said print job, said sheet list having individual entries identifying each of the sheets in said sets, said resumption pointer designating a resumption sheet;

feeding said sheets into a media path through the printer to an output destination;

determining if each of said sheets has been delivered to said output destination;

setting said resumption pointer to a next said entry in said sheet list responsive to each said determining that a respective one of said sheets has been delivered;

repeating said initializing, feeding, determining, and setting steps for each of said output sets; and

(2) during said printing, following occurrence and clearing of the media jam, the computer-implemented steps of:

setting a sheet pointer to a current said resumption sheet;

advancing said sheet pointer through a cycle of entries on said sheet list beginning with said resumption sheet until said resumption sheet is again reached;

during said advancing, purging respective said ordered media corresponding to said cycle of entries; and

then, resuming the respective said feeding step.

Claim 21 is supported by the application as filed, notably the original claims and at paragraph 0021, lines 11-13 (page 4, lines 1-2); paragraphs 0035-0037, all lines; paragraph 0024, lines 16-18 (page 5, lines 4-6); paragraph 0039, all lines; paragraph 0032, lines 1-5; paragraphs 0039 and 0041, all lines; paragraphs 0044-0046, all lines; paragraph 0010, lines 3-5; paragraph 0050, all lines; paragraph 0052-0054, all lines.

Claim 21 is directed to a printing method for recovering a printer from a cleared media jam of a print job having multiple output sets, each set having media sheets including a plurality of sheets of ordered media having a repetitive sequence. The method has a printing step, which includes repeats of: initializing a resumption pointer in a sheet list, feeding sheets into a media path, determining if each of the sheets has been delivered to an output destination, and setting the resumption pointer to a next entry in response to sheet delivery. Following occurrence and clearing of a media jam, computer-implemented steps: set a sheet pointer to a current resumption

sheet, advance the sheet pointer through a cycle of entries on the sheet list and purge respective ordered media corresponding to said cycle of entries, and then resume the respective feeding step.

This is unlike Hull, which, in effect, simply maintains a resumption pointer and presents a graphical representation disclosing the resumption pointer to an operator following a cleared jam. Hull states:

"[0057] In one embodiment of the present invention, the CPU 17 is programmed to determine the appropriate place to recover to in the supply of ordered media after a jam occurs in the printing system 26. That is, the CPU 17 determines which sheets, if any, in the set being used before the jam need to be removed. The CPU 17 generates a graphical representation assigned to the sheets and sends the graphical representation to display 22 of the user interface 13. The graphical representation indicates the appropriate starting point of the ordered media after a jam. The graphical representation may be, for example, a graphic with the completed pages highlighted to show the operator the recovery point. Alternatively, the system can display a graphic showing the particular sheet to recover to. The user then strips the sheets of ordered media that need to be discarded from the input source containing the ordered media." (Hull, page 4, paragraph 0057; emphasis added)

In contrast to Hull, Claim 21 requires both the resumption pointer and a sheet pointer. The sheet pointer is used in the computer-implemented steps of:

"setting a sheet pointer to a current said resumption sheet;

"advancing said sheet pointer through a cycle of entries on said sheet list beginning with said resumption sheet until said resumption sheet is again reached".

During the advancing of the sheet pointer, the ordered media corresponding to the cycle of entries in the sheet list are purged. The sheet pointer, in advancing, points to each sheet that is purged. This use of a sheet pointer and the sheet list is not present in Hull. The graphical representation, in Hull, indicates the appropriate starting point of the ordered media after a jam and the user strips or otherwise disposes of media sheets to be discarded. (See above quote and Hull, paragraph 0112, lines 12-18 and paragraph 0113.) Hull does not disclose setting and advancing a sheet pointer for the user.

Claims 3-5 were cancelled.

Claims 2, 7, 11-13, and 22-25 are allowable as depending from Claim 21 and as follows.

The rejection stated in relation to Claim 7:

"(6) regarding claim 7:

"Hull '607 further discloses in a printer that comprises a plurality of input sources coupled to an output destination (32, 33, 34, 39 in Fig. 2), one of the input sources comprising an ordered media have a repetitive sequence (paragraph [0045], lines 1-3 and paragraph [0046], lines 1-3, where the user loads groups of ordered pages into the printer), a method of recovering from a jam without determining the sequence of the ordered media (paragraph [0057], lines 4, where the CPU is capable of performing the jam recovery without the need of preprogramming the order of the media) comprising:

"receiving a print request that is associated with a sheet list that identifies how ordered media sheet will be processed (paragraph [0046], lines 3-11, where the user enter the selection of arrangement media, thus identifying the order of the media and paragraph [0052], where the user inputs a list of page identifiers to apply the previously entered order media);

"inserting selected ordered media within a document according to the sheet list (paragraph 0056], lines 4-11); and

"purging selected ordered media automatically by referring to the sheet list when a jam occurs (paragraph [0057], lines 1-6, where it says "sheets need to be removed" is being interpreted as purging the ordered media when a jam occurs)."

Claim 7 has been amended to depend from Claim 21 and to state:

7 (currently amended). The method of claim 21 further comprising:

receiving a print request that is associated with a the sheet list that identifies how ordered media sheets will be processed; and

wherein said feeding further comprises inserting respective said ordered media within a document according to the sheet list.

Claim 7 is supported by the application as filed, notably the original claims and at page 5, paragraph 0024, lines 16-18.

Claim 14 is supported and allowable on the same basis as Claim 21.

Claims 15 and 19-20 are allowable as depending from Claim 14.

Claims 16-18 were cancelled.

Claim 6 stands rejected under 35 U.S.C. 103(a) as being unpatentable over Hull (US Publication 2002/0101607). Claim 6 was cancelled.

Claims 8-10 stands rejected under 35 U.S.C. 103(a) as being unpatentable over Hull (US Publication 2002/0101607) as applied to claim above and

further in view of Barry et al. (US Patent 5,859,711). Claims 8-10 are allowable as depending from Claim 21.

Claims 22-24 are allowable as depending from Claim 21 and are supported by the application as filed, notably the original claims and as follows: Claim 22 (page 10, paragraph 0052, lines 2-7); Claim 23 (page 10, paragraph 0051, lines 7-10); Claim 24 (page 7, paragraph 0032, lines 6-8); Claim 25 (page 11, paragraph 0056 and page 12, paragraph 0064, lines 4-6).

It is believed that these changes now make the claims clear and definite and, if there are any problems with these changes, Applicants' attorney would appreciate a telephone call.

In view of the foregoing, it is believed none of the references, taken singly or in combination, disclose the claimed invention. Accordingly, this application is believed to be in condition for allowance, the notice of which is respectfully requested.

Respectfully submitted,



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